

SHEET INDEX  
SUPPORTING INFORMATION  
OPTION INDEX

NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
AI	1	2	3																						
FS 1 APLO TO ALLOW A KEY TEL AND/OR LSV TO SEIZE A LOCAL TESTING TALK TRUNK																									
FS 2 APPLIQUE TO ADAPT THE NO.16 LTD TELEPHONE CIRCUIT FOR USE WITH A KEY TELEPHONE LINE	BI	1	2	2																					
FS 3 TALKING BATTERY FOR KEY TELEPHONES	CE		2	2																					
FS 4 120 RPM FLASHING CKT																									
APP FIG.1,2,3,4	CI	1	2	3																					
CIRCUIT NOTES EQUIPMENT NOTES INFORMATION NOTES WORKING LIMITS TRANSMISSION TEST RESULTS TABLE	DI	1	2	3																					
CIRCUIT REQUIREMENTS TABLE	FI	1	2	2																					
CAD 1	GI	1	2	2																					
CAD 2	GI	1	2	2																					
CAD 3,4,5,6	GI	1	2	2																					
CAD 7	GI		2	2																					
CAD 8,9,10	GI		2	2																					
BD 1 TYPICAL INTERCONNECTIONS FOR KEY TELEPHONE TO LOCAL TESTING TRUNK																									
BD 2 TYPICAL INTERCONNECTIONS FOR LOCAL TEST DESK TO KTS	HI	1	1	1																					
CPS 1	JI	1	2	2																					

APP OR WIRE	LOCATION
1	APP FIG.1
2	APP FIG.2
3	APP FIG.3
4	APP FIG.4
Z	APP FIG.1,1B3,C2,D2, D3
Y	APP FIG.1,1B3,C2,D2, D3
X	APP FIG.1,1B3,C2,D3

SHEET INDEX NOTES

- WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
- THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.
- THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET IMPC.
- SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
- THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWINGS	ED-97563 J93018DF J93018DG

NOTICE  
NOT FOR USE OR  
DISCLOSURE OUTSIDE  
THE BELL SYSTEM  
EXCEPT UNDER  
WRITTEN AGREEMENT

SD-97565-01

INNO

COMMON SYSTEMS  
TALK TRUNK AND LINE CIRCUIT  
APPLIQUE  
NO.16 LTD, LSV AND KEY  
TELEPHONE SYSTEMS

(TLX TRK B.L.)

BELL TELEPHONE LABORATORIES

SD-97565-01-A1

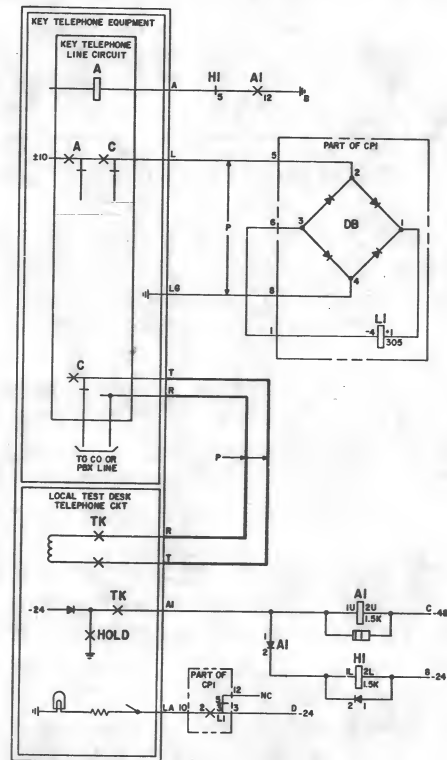
13 SHEETS

ISSUE  
38

AT&TCO  
STANDARD

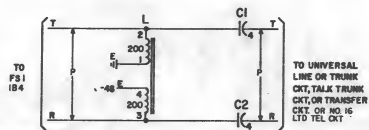
65

SD-97565-01-A1



2B

©FS 3  
TALKING BATTERY  
FOR KEY TELEPHONES



©FS 4  
120 IPM FLASHING CKT



SD-97565-01-B2

TALK TRUNK AND LINE CIRCUIT APPLIQUE		SD-97565-01-B2
BELL TELEPHONE LABORATORIES INCORPORATED	28	

OPTION	CONT	LOC	CODE	NETWORKS	DESIG	LOC	CODE	OPTION
12	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
11	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
10	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
9	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
8	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
7	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
6	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
5	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
4	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
3	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
2	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
1	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
COL	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC

OPTION	CONT	LOC	CODE	NETWORKS	DESIG	LOC	CODE	OPTION
12	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
11	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
10	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
9	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
8	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
7	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
6	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
5	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
4	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
3	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
2	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
1	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC
COL	ARR	LOC	ARR	LOC	ARR	LOC	ARR	LOC

DIODES	LOC	CODE	NETWORKS	DESIG	LOC	CODE
DESIG	LOC	CODE	DESIG	LOC	CODE	
A	IC2	A48F 533F	A	ID1	IB5A	
			L	ID3	IB5A	

#### CIRCUIT PACKS

EQPT	LOC	CODE
DESIG	LOC	CODE
CP1	ED-97563,01	
OPTION		
ELEM IDENT	TERM	
FS	3JO-187	
LOC	1,5,6,8-107	

DIODES	LOC	CODE	NETWORKS	DESIG	LOC	CODE
DESIG	LOC	CODE	DESIG	LOC	CODE	
AI	IB7	A48F 533F	AI	IB8	IB5A	
HI	IB8					

APP FIG. 3

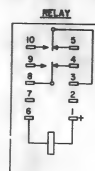
RELAY	DESIG	LOC	CODE	OPTION
CONT	ARR	LOC	ARR	LOC
12	ARR	LOC	ARR	LOC
11	ARR	LOC	ARR	LOC
10	ARR	LOC	ARR	LOC
9	ARR	LOC	ARR	LOC
8	ARR	LOC	ARR	LOC
7	ARR	LOC	ARR	LOC
6	ARR	LOC	ARR	LOC
5	ARR	LOC	ARR	LOC
4	ARR	LOC	ARR	LOC
3	ARR	LOC	ARR	LOC
2	ARR	LOC	ARR	LOC
1	ARR	LOC	ARR	LOC
COL	ARR	LOC	ARR	LOC

INDUCTORS	LOC	CODE	CAPACITORS	LOC	CODE
DESIG	LOC	CODE	DESIG	LOC	CODE
L	282	274L	CI	283	437A
			CE	283	437A

APP FIG. 4

RELAY	DESIG	LOC	CODE	OPTION
CONT	ARR	LOC	ARR	LOC
12	ARR	LOC	ARR	LOC
11	ARR	LOC	ARR	LOC
10	ARR	LOC	ARR	LOC
9	ARR	LOC	ARR	LOC
8	ARR	LOC	ARR	LOC
7	ARR	LOC	ARR	LOC
6	ARR	LOC	ARR	LOC
5	ARR	LOC	ARR	LOC
4	ARR	LOC	ARR	LOC
3	ARR	LOC	ARR	LOC
2	ARR	LOC	ARR	LOC
1	ARR	LOC	ARR	LOC
COL	ARR	LOC	ARR	LOC

NETWORK	LOC	CODE
DESIG	LOC	CODE
F	287	IB5A



DESIG	F
CODE	313A
OPTION	
10	
9	
8	
7	
6	287
5	1E2
4	
3	1E2
2	
1	287

TALK TRUNK AND LINE CIRCUIT  
APPLIQUE

65 BELL TELEPHONE LABORATORIES

SD-97565-01-C1

ISSUE  
3B

SD-97565-01-C1

SD-97565-01-D1

### CIRCUIT REQUIREMENTS

APPARATUS				MESH REST			CHOCUT PREPARATION				SEX		DIRECT CURRENT FLOW				REMARKS
DESG	CODE	OPT	FIG.	BSP FIG.	CONT PRES	ARM TRV.	BLOCK ON INSULATE	TEST CLIP DATA		TEST SET PREP	TEST NOTE	TEST WDG	TEST FOR	TEST AGAIN NA	TEST AGAIN NA		
								CONN BAT.	CONN GND								
A	1/2 AK42		1	223					10(A)	GRB			0	10.5	10	MOUNTED WITH (L)	
A1	1/2 AK42		2	223					10(A)	-24V			0	10.5	10	MOUNTED WITH (H)	
H	AJ136	X	1	56					SL(N)	10(N)	M	P/S	0	12.6	12		
	AJ58	YX	1	508					SL(N)	10(N)	M	P/S	0	13.2	12.5		
											P/S	R		3.5	3.3		
H	1/2 AK42		2	223					SL(N)		GRD		0	10.5	10	MOUNTED WITH(A)	
L	1/2 AK42		1	223					SL(L)	SL(L)	BAT		0	10.5	10	MOUNTED WITH (A)	

SD-97565-01-F1

ISSUE  
2B

TALK T:UNK AND LINE CIRCUIT  
APPLIQUE.

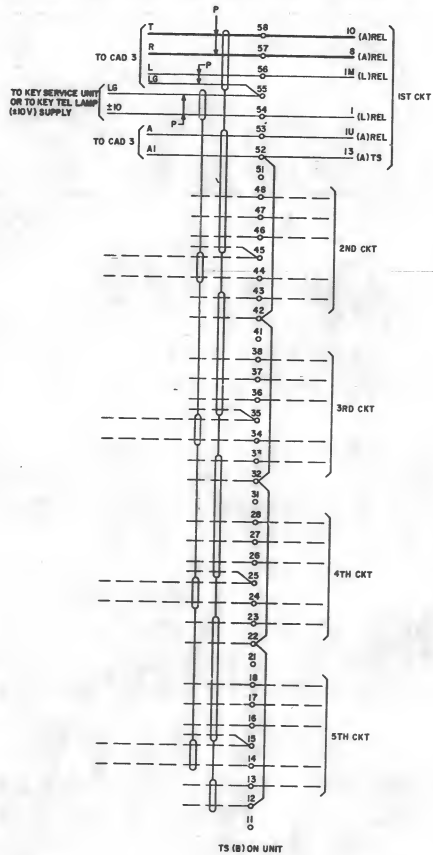
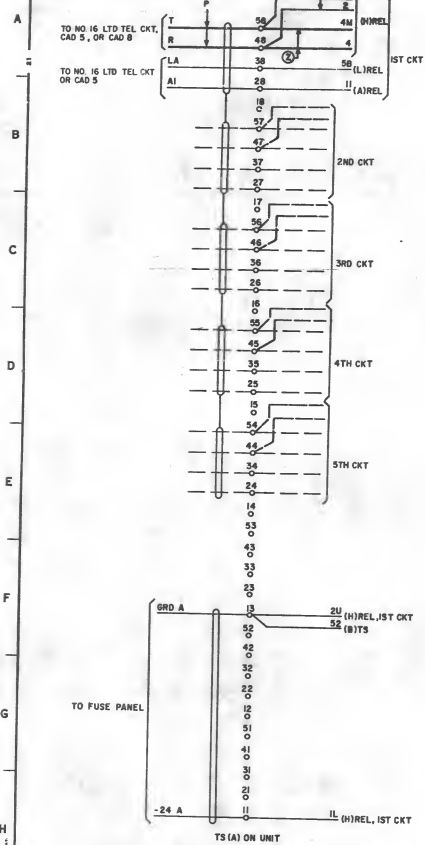
②

SD-97565-01-FI

BELL TELEPHONE LABORATORIES

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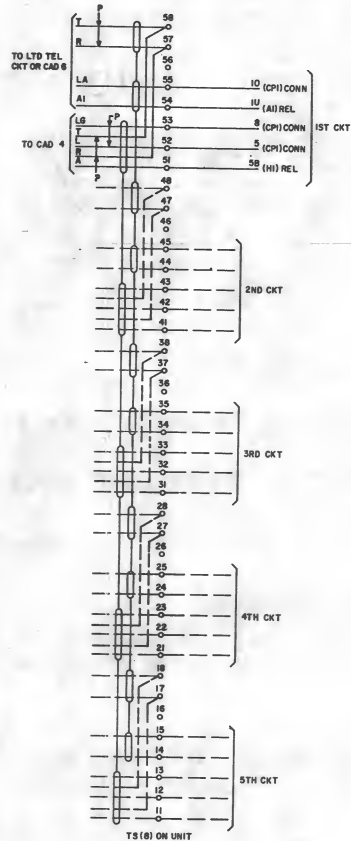
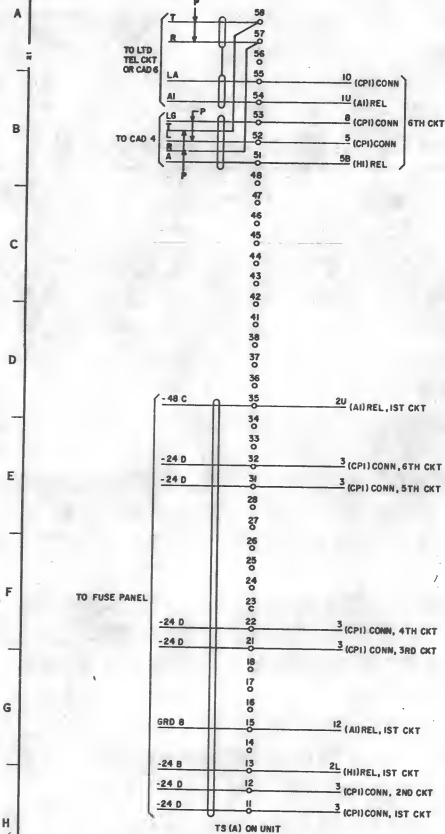
OPTION 2, Y



SD-97565-01-G1

TALK TRUNK AND LINE CIRCUIT APPLIQUE		<div style="border: 1px solid black; padding: 2px; display: inline-block;">2</div>	SD-97565-01-G1
BELL TELEPHONE LABORATORIES			

2B

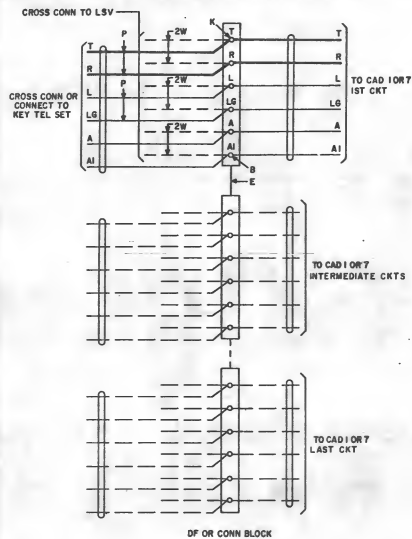


SD-97565-01-62

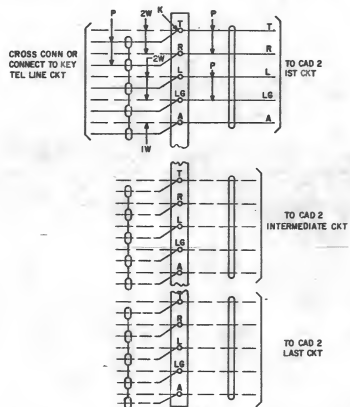
TALK TRUNK AND LINE CIRCUIT APPLIQUE		2	SD-97565-01-62
BELL TELEPHONE LABORATORIES		65	



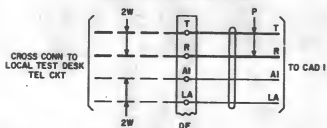
DISTRIBUTING FRAME LEADS TO LINE STATUS  
VERIFIER AND/OR KEY TELEPHONE SET



DISTRIBUTING FRAME LEADS TO  
KEY TELEPHONE UNIT

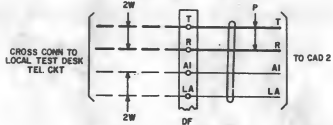


**CAD 5**  
DISTRIBUTING FRAME LEADS TO ALLOW A KEY  
TELEPHONE AND/OR LINE STATUS VERIFIER  
TO SEIZE LOCAL TESTING TALK TRUNKS



**CAD 6**

DISTRIBUTING FRAME LEADS  
TO ADAPT A LTD. TEL. CKT  
FOR USE WITH KEY TEL LINES

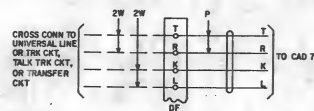
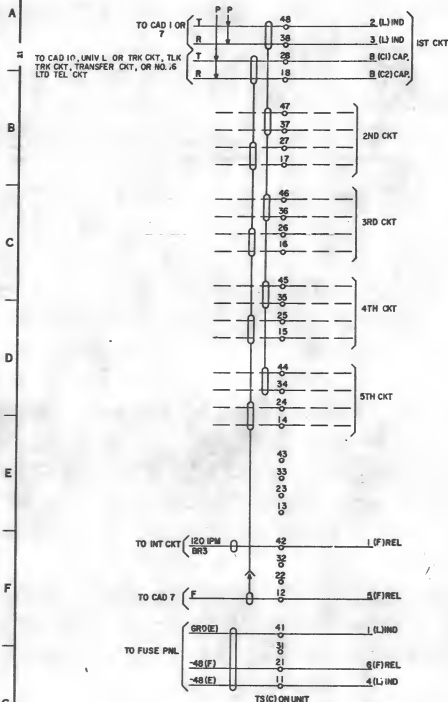


SD-97565-01-63

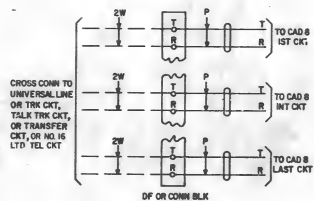
TALK TRUNK AND LINE CIRCUIT APPLIQUE		2	SD-97565-01-63
BELL TELEPHONE LABORATORIES		6S	

2B





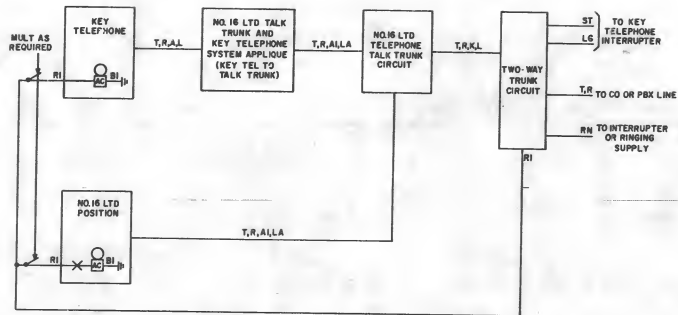
CAD 10  
DIST FR LEADS TO UNIVERSAL  
LINE OR TRK CKT, TALK TRK  
CKT OR TRANSFER CKT



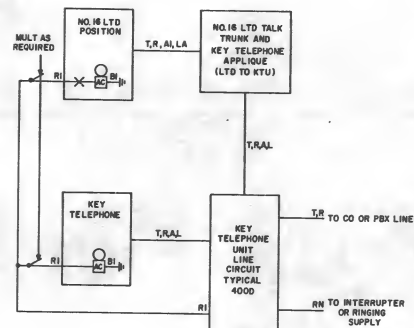
SD-97565-01-G5

2B

TYPICAL INTERCONNECTIONS  
FOR KEY TELEPHONE  
TO LOCAL TESTING TRUNK



TYPICAL INTERCONNECTIONS  
FOR LOCAL TEST DESK TO KTS



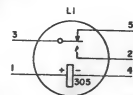
TALK TRUNK AND LINE CIRCUIT  
APPLIQUE  
BELL TELEPHONE LABORATORIES  
INCORPORATED

SD-97565-01-HI

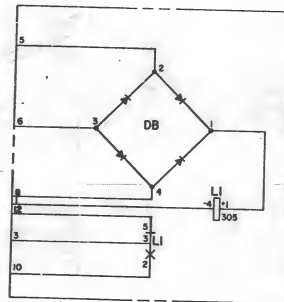
6S

## CPS 1

## COMPONENT LIST

\* RELAY  
337A\* RELAY NOT ADJUSTABLE, REPLACE  
WHEN THERE IS A MALFUNCTION

DIODE DESIG	CODE
DB	460M



## MANUFACTURING REFERENCES

CATEGORY	NO.
CIRCUIT PACK CODE	EO-97563( 1-G)

SYMBOL  
SHOWN IN PS

## INPUT/OUTPUT INFORMATION

CONNECT BATTERY (-48V) TO TERMINAL 5 AND GROUND TO  
TERMINAL 8. (L1) RELAY WILL OPERATE AT 7.5 MA. REVERS-  
ING THE BATTERY AND GROUND LEADS WILL ALSO OPERATE  
(L1) RELAY AT 7.5 MA.

## CIRCUIT DESCRIPTION

WHEN 10V 60 CYCLES AC IS APPLIED TO TERMINAL 5, (L1)  
RELAY OPERATES ON FULL WAVE RECTIFIED CURRENT SUP-  
PLIED BY (DB) DIODE BRIDGE. THE CONTACT CLOSURE  
PATH BETWEEN TERMINALS 3 AND 10. THIS CONTACT  
CLOSURE LIGHTS THE TALK TRUNK LAMP AT THE LOCAL  
TEST DESK. (FOR COMPLETE CD TEXT SEE CD-97565-01)

SD-97565-01-1

TALK TRUNK AND LINE CIRCUIT APPLIQUE	2	SD-97565-01-J1